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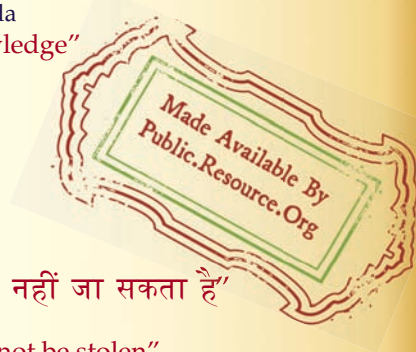
IS 13455 (1992): Pesticide - Pirimiphos Methyl EC [FAD 1: Pesticides and Pesticides Residue Analysis]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

कीटनाशक — प्रिमिफोज मैथिल ई सी — विशिष्ट

Indian Standard

PESTICIDE — PIRIMIPHOS METHYL EC —
SPECIFICATION

UDC 632.951 PIR

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides Sectional Committee had been approved by the Food and Agricultural Division Council.

Pirimiphos methyl EC is used as an insecticide for the control of insect pests of stored agricultural products and public health.

Pirimiphos methyl EC is generally manufactured to contain 50 percent (*m/m*) of pirimiphos methyl.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act, 1968* and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under the Act and Rules, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

PESTICIDE — PIRIMIPHOS METHYL EC — SPECIFICATION

1 SCOPE

This standard prescribes the requirements and the method of sampling and test for pirimiphos methyl EC.

2 REFERENCES

The Indian Standards listed below are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
1070 : 1992	Reagent grade water (<i>third revision</i>)
1448 [P : 20] : 1982	Methods of test for petroleum and its products [P : 20] : Flash point by Abel apparatus (<i>first revision</i>)
6940 : 1982	Methods of test for pesticides and their formulations (<i>first revision</i>)
8190 (Part 1) : 1988	Requirements for packing of pesticides : Part 1 Solid pesticides (<i>second revision</i>)
10627 : 1983	Methods for sampling of pesticidal formulations
13080 : 1991	Pirimiphos methyl, technical

3 REQUIREMENTS

3.1 Constituents

3.1.1 The material shall consist of pirimiphos methyl, technical, dissolved in suitable solvent(s) together with emulsifying agent(s) and stabilizer(s).

3.1.2 Pirimiphos methyl, technical, employed in the manufacture of the material, shall conform to IS 13080 : 1991.

3.2 Description

The material shall be a straw coloured or light brown stable liquid, free from sediment and/or suspended matter. It shall readily form an emulsion on dilution with water, suitable for spray.

3.3 Cold Test

No turbidity or separation of solid or oily matter shall occur when the material is subjected to the cold test at 10°C as prescribed in **13.1** of IS 6940 : 1982.

3.4 Flash Point (*Abel*)

When determined by the method prescribed in IS 1448 [P : 20] : 1982, the flash point of the material shall be above 24.5°C.

3.5 Emulsion Stability

Any separation including creaming at the top and sedimentation at the bottom of 100 ml of emulsion prepared in standard hard water with 2.0 ml of the EC, shall not exceed 2.0 ml when tested by the method prescribed in **13.3** of IS 6940 : 1982.

3.6 Pirimiphos Methyl Content

When determined by the method prescribed in Annex B of IS 13080 : 1991, the observed pirimiphos methyl content (*m/m*) of any of the samples shall not differ from the declared nominal value by more than the tolerance limits given below:

<i>Nominal Value, Percent</i>	<i>Tolerance, Percent</i>
Up to 9	+ 10) - 5)
Above 9 and below 50	± 5) nominal) value
50 and above	+ 5) - 3)

3.7 Acidity

When tested by the method prescribed in **13.5** of IS 6940 : 1982, the acidity (as H_2SO_4) of the material shall be not more than 0.5 percent by mass.

4 PACKING

The material shall be packed in clean and dry aluminium or mild steel or tin-plate containers suitably and properly lacquered from inside. In addition, the material shall comply with the general packing requirements given in **2** of IS 8190 (Part 2) : 1988.

5 MARKING

The containers shall be securely closed and shall bear legibly and indelibly the following information in addition to any other information as required under the *Insecticides Act, 1968* and Rules framed thereunder:

- a) Name of the material;
- b) Indication about the source of manufacture;
- c) Batch number;
- d) Date of manufacture;
- e) Date of expiry;
- f) Net mass of contents;
- g) Nominal pirimiphos methyl content, percent (*m/m*); and
- h) The minimum cautionary notice worded as in the *Insecticides Act, 1968* and the Rules framed thereunder.

6 SAMPLING

When a bulk quantity of the material is offered for inspection, representative samples of the

material shall be drawn as prescribed in IS 10627 : 1983 and tested within 90 days of its manufacturing. The criteria for conformity shall be as given in IS 10627 : 1983. However when the material is offered for inspection after 90 days of its manufacturing, sampling shall be done according to IS 10627 : 1983 and the criteria for conformity of the material when tested, shall be the limits of tolerances as applicable over the declared nominal value, given under 3.6 of this standard.

7 TESTS

7.1 Tests shall be carried out by the appropriate methods referred to in 3.3, 3.4, 3.5, 3.6 and 3.7.

7.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070 : 1992) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the result of analysis.

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